



U.S. AIR FORCE



**THULE • PALOMARES •
BOMARC • DAMASCUS •
AFGHANISTAN-OEF •
TORI SHIMA • SAUDI
ARABIA-DESERT STORM**

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AFRAT

AIR FORCE RADIATION ASSESSMENT TEAM



USAF SCHOOL OF AEROSPACE MEDICINE

711 HUMAN PERFORMANCE WING

MISSION

The Air Force Radiation Assessment Team (AFRAT) provides the manpower and equipment necessary to support all aspects of nuclear and radiological threats. We provide rapid, global response for radiation and nuclear accidents/incidents to deliver radiological risk assessment for contingency planning, consequence management, and site recovery.



The AFRAT is a composite team consisting of seven specialized teams organized as Unit Type Codes (UTCs) to support the following missions:

- Radiological/Nuclear Counter Proliferation
- Contingency Planning
- Crisis Response
- Consequence Management
- Operational Sustainment and Recovery



The AFRAT provides commanders and other key decision-makers with risk-based recommendations to maximize force protection while meeting critical mission requirements.

AFRAT UNIT TYPE CODES (UTCs)

• FFRN1: Radiation Crisis Advon Team

Rapid response element for on-site support, providing expert Operation Risk Management (ORM) guidance, health risk assessments, survey planning, radiation measurement capability, COCOM deliberate planning; provides commanders situation awareness to develop a common operating picture.

Size: 2-Officers, 200lbs/4 Cases

• FFRN2: Radiation Surveillance Team

Light, rapid field survey team for on-site radiation surveys, measurements, and source identification for inputs to risk assessments supporting ORM.

Size: 2-Officers, 4-Enlisted, 600lbs/12 Cases

• FFRN3/A: Rad. Surveillance Aug. Team

Augments FFRN2; Provides expanded capability, duration, and sustainment for site surveys with additional equipment and survey personnel.

Size: 2-Officers, 7-Enlisted, 9,000lbs/3-463L Pallets

• FFRN4: Radiation Laboratory Team

On-site sample radio-analysis for pre-placed baseline surveys or rapid response to small scale events. Analyzes environmental and biological media to support force protection.

Size: 1-Officer, 2-Enlisted, 300lbs/6 cases

• FFRN5/B: Rad. Laboratory Aug. Team

Augments FFRN4; Provides expanded capability, duration, and sustainment for sample analysis with equipment and personnel

Size: 1-Officer; 6-Enlisted, 13K lbs/4-463L Pallets

• FFRN6: Radiation Dosimetry Team

Rapid on-site personnel radiation monitoring for small scale events. Manages and analyzes radiation monitoring devices to track radiation exposures.

Size: 1-Officer; 2-Enlisted, 300lbs/6 cases

• FFRN7/C: Rad. Dosimetry Aug. Team

Augments FFRN6; Provides expanded capability, duration, and sustainment for personnel radiation exposure monitoring with more equipment and personnel.

Size: 1-Officer; 2-Enlisted, 7,700 lbs/2 463L Pallets

CAPABILITIES

AFRAT provides technical experts and specialized equipment to support all aspects of radiological and nuclear mission support. AFRAT UTC teams consist of highly mobile response teams (FFRN1, 2, 4, 6) and larger, more capable augmentation teams (manpower-FFRN3, 5, 7 and equipment-FFRNA, B, C).



Manpower for FFRN1-7 is 36 world-wide qualified, active duty military personnel:

- 11 Health Physicists (HP)
- 16 HP/Industrial Hygiene Techs
- 9 Radiation Laboratory Techs



Equipment is assigned to the light mobile (FFRN1, 2, 4, 6) and equipment augmentation (FFRNA, B, C) teams. With over \$3.5M of War Reserve Material (WRM), equipment includes:

- C² and Data Management Systems
- Ground, air, and water survey instruments
- Portable high resolution gamma spectrometers
- 1000 electronic personnel dosimeters